

Annual Report Information

2013 center annual reports will be submitted on the Drupal website.

Please upload the document as a pdf file. Maximum size 2 mb. **Be sure to save.**

Reports are due September 15.

The following information is required:

- QuarkNet Center Name, number of years in the program

- Description of the teacher participants

- Description of the student participants (if applicable)

- Center program description for both teachers and students (if applicable)

- A photo is appreciated. Please embed in the document.

- Mentors

Here is a good example from 2008.

Johns Hopkins University - The JHU Experimental Particle Physics Group sponsored its annual



QuarkNet Workshop in the Bloomberg Center the week of August 4-8. This is the 7th year JHU has been part of the national QuarkNet program. This year's workshop included 13 teachers, nine of whom had been in the program before. The teachers came from a wide variety of backgrounds. There were both male and female teachers representing Baltimore City and non-Baltimore City schools, public and private schools, single sex and regular schools, as well

secular and religious schools.

The workshop format was talks in the morning and "lab" in the afternoon. The talks ranged beyond just experimental and theoretical particle physics, including the WMAP experiment, cosmology, condensed matter physics, superconductivity and global warming. Speakers from the JHU faculty and research staff included Bruce Barnett, Bill Blair, Chia Ling Chien, Andrei Gritsan, David Kaplan, David Larson, Petar Maksimovic and Raman Sundrum. One of the high school teachers, James Rittner, made two presentations, one on particle physics and the other on his experience at CERN as a QuarkNet teacher representative. The afternoon labs included a lot of variety. The lab for the first two days was led by a QuarkNet teacher from Kansas, Laurie Cleavenger, in collaboration with Pauline Oji, a JHU QuarkNet teacher. The lab for the last three days was led by James Rittner and Bruce Barnett. There were two primary activities: 1) introduction to the EPPOG Masterclass program and particle physics data analysis and 2) assembly of one of the QuarkNet cosmic ray detectors. Time was allocated for the teachers to discuss other ways to get their students more interested in science. JHU particle physicists along with three of the teachers and their students joined an international masterclass program in the spring of 2007. The other teachers found this to be very interesting and expressed a desire to include their students in 2008. Also, there was increasing enthusiasm from the teachers in becoming more involved in the 2008 Johns Hopkins Physics Fair.

Mentors: Bruce Barnett, Morris Swartz